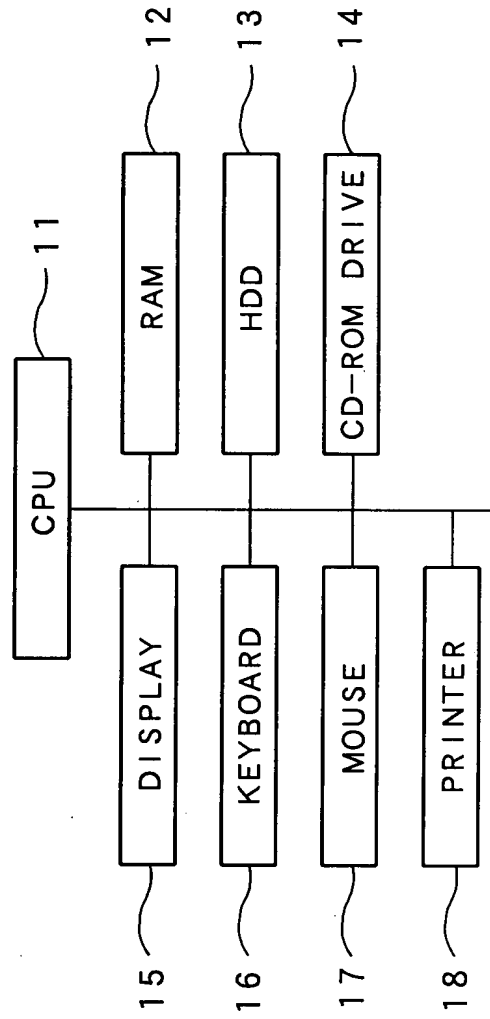


Fig. 1



F i g. 2

```
//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline ()
{
    //initialize variavle
    int c,nl;
    nl=0;
    //count number of lines till EOF is detected
    while ( (c=getchar ()) !=EOF)
        if (c=='\n')
            ++nl;
    // display line count on screen
    printf ("%d\n", nl);
    return nl;
}
```

Fig. 3

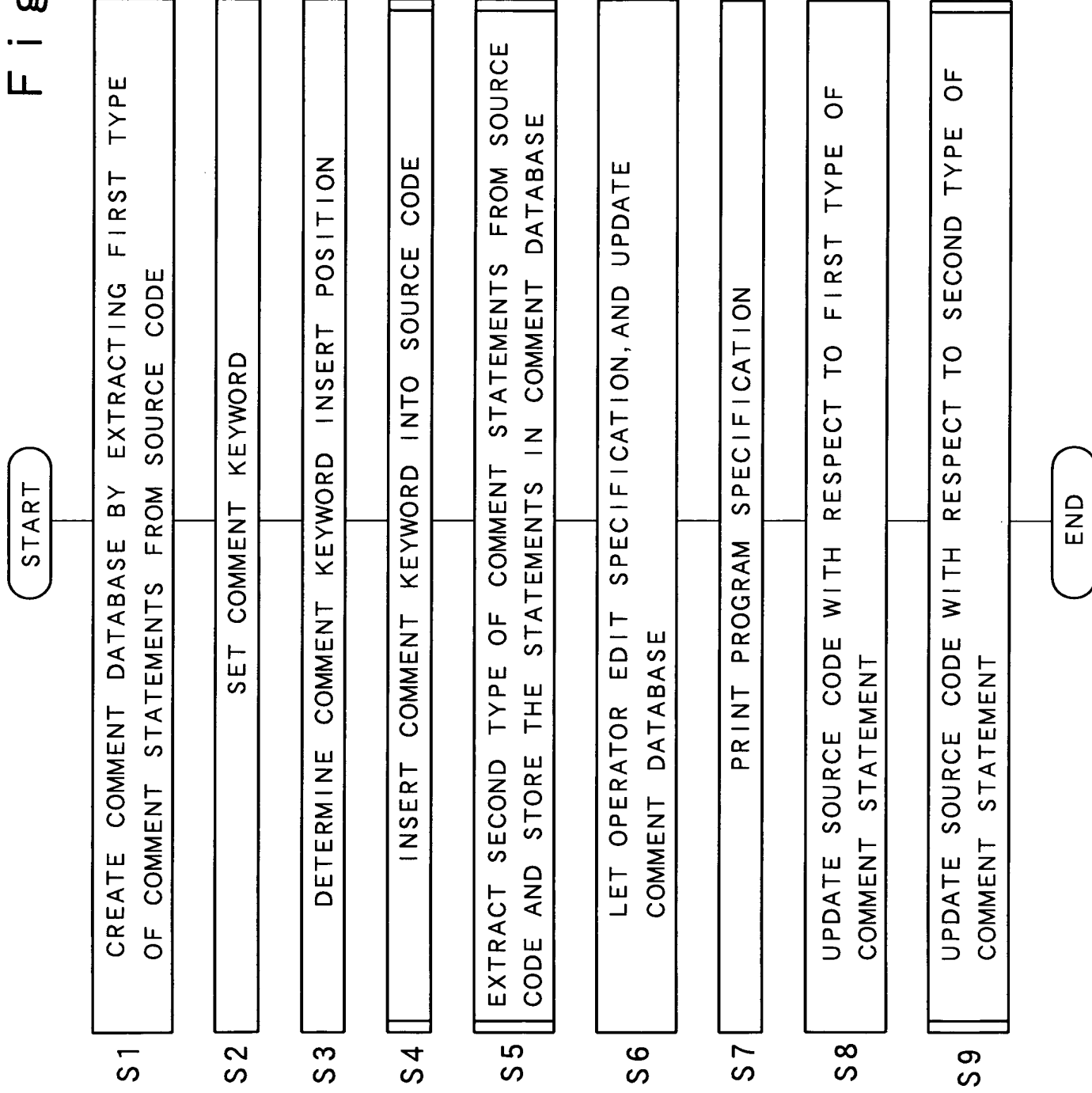


Fig. 4

IDENTIFIER	COMMENT ITEM	COMMENT
getline	OUTLINE	obtain line count of file
	RETURN VALUE	line count of file
	EXPLANATION OF PARAMETER	nothing
	FUNCTIONAL EXPLANATION	

50.1

Comment Keyword Format

☒ Extract Comment in Function (P)

Option

Definition of Comment Item

Function (F) : Functional Explanation

Member Function (M) : Functional Explanation

Definition of Keyword

Head Keyword (K) : .* Invalid (A)

Enclosure Keyword (S) :

Definition of Valid Column Position

Column Position (C) : 1 999

OK Cancel

21

Fig. 6

30

Comment Keyword Insert Position

☒ Insert Keyword Into Comment Line (C)

☐ Insert Keyword Into Indicated Position (P)

INSERT POSITION

☐ Consecutive Sequential Statements (S)

☐ Iteration, Selection Statement (D)

☐ Branch Statement (G)

OK

Cancel

```
//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline ()
{
    //initialize variavle
    int c,nl;
    nl=0;
    // count number of lines till EOF is detected
    while (c=getchar ()) !=EOF)
        // check whether it is line feed signal or not
        if (c=='\n')
            // count number of lines in the case of line feed signal
            ++nl;
    // display line count on screen
    printf ("%d\n", nl);
    // return line count to caller
    return nl;
}
```

Fig. 8

30

31 ☐ Insert Keyword Into Comment Line (C)

32 ☒ Insert Keyword Into Indicated Position (P)

33 ☒ Consecutive Sequential Statements (S)

34 ☒ Iteration, Selection Statement (D)

35 ☒ Branch Statement (G)

36 OK Cancel

Comment Keyword Insert Position

INSERT POSITION

Branch Statement (G)

Iteration, Selection Statement (D)

Consecutive Sequential Statements (S)

OK Cancel

X

Fig. 9

```
//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline()
{
    int c,nl;
    nl=0;
    while ((c=getchar()) !=EOF)
        if (c=='\n')
            ++nl;
    printf ("%d\n", nl);
    return nl;
}
```

Fig. 10

30

Comment Keyword Insert Position

☒ Insert Keyword Into Comment Line (C)

☒ Insert Keyword Into Indicated Position (P)

INSERT POSITION

☒ Consecutive Sequential Statements (S)

☒ Iteration, Selection Statement (D)

☒ Branch Statement (G)

OK

Cancel

Fig. 11

```
//outline
//  obtain line count of file
//  return value
//  line count of file
//  explanation of parameter
//  nothing
int getline()
{
    //1 initialize variavle
    int c, nl;
    nl=0;
    //2 count number of lines till EOF is detected
    while ((c=getchar()) !=EOF)
        //2.1 check whether it is line feed signal or not
        if (c=='\n')
            //2.1.1 count number of lines in the case of line feed signal
            ++nl;
    //3 display line count on screen
    printf ("%d\n", nl);
    //4 return line count to caller
    return nl;
}
```

Fig. 12

```
//outline
//  obtain line count of file
//  return value
//  line count of file
//  explanation of parameter
//  nothing
int getline ()
{
    //1)
    int c,nl;
    nl=0;
    //2)
    while ( (c=getchar ()) !=EOF)
        //2.1)
        if (c=='\n')
            //2.1.1)
            ++nl;
    //3)
    printf ("%d\n", nl);
    //4)
    return nl;
}
```

Fig. 13

```

//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline()
{
    //1 initialize variable
    int c, nl;
    nl=0;
    //2 count number of lines till EOF is detected
    while ((c=getchar()) != EOF)
        //2.1
        if (c=='\n')
            //2.1.1
            ++nl;
    //3 display line count on screen
    printf ("%d\n", nl);
    //4
    return nl;
}

```

Fig. 14

IDENTIFIER	COMMENT ITEM	COMMENT
getline	OUTLINE	obtain line count of file
	RETURN VALUE	line count of file
	EXPLANATION OF PARAMETER	nothing
	FUNCTIONAL EXPLANATION	1) initialize variable
		2) count number of lines till EOF is detected
		2. 1)
		2. 1. 1)
		3) display line count on screen
		4)

Fig. 15

40

Edit Screen

X

Explanation of getline Function

Name of Function

getline

Definition File

Main.cpp

Definition Line Number

109

Declaration Format

int getline ()

Outline

obtain line count of file

Return Value

line count of file

Explanation of Parameter

nothing

Functional Explanation

1) initialize variable

2) count number of lines till EOF is detected

2. 1)

2. 1. 1)

3) display line count on screen

4)

41

42

43

44

Fig. 16

40

The screenshot shows a window titled "Edit Screen" with a close button (X) in the top right corner. The window contains a table with the following data:

Explanation of getline Function		
Name of Function	getline	
Definition File	Main.cpp	Definition Line Number 109
Declaration Format		
int getline ()		
Outline		
obtain line count of file		
Return Value		
line count of file		
Explanation of Parameter		
nothing		
Functional Explanation		
1) initialize variable		
2) count number of lines till EOF is detected		
2. 1) check whether it is line feed signal or not		
2. 1. 1) count number of lines in the case of line feed signal		
3) display line count on screen		
4) return line count to caller		

Labels 41, 42, 43, and 44 point to the "Outline", "Return Value", "Explanation of Parameter", and "Functional Explanation" sections, respectively.

Fig. 17

IDENTIFIER	COMMENT ITEM	COMMENT
getline	OUTLINE	obtain line count of file
	RETURN VALUE	line count of file
	EXPLANATION OF PARAMETER	nothing
	FUNCTIONAL EXPLANATION	<p>1) initialize variable</p> <p>2) count number of lines till EOF is detected</p> <p>2. 1) check whether it is line feed signal or not</p> <p>2. 1. 1) count number of lines in the case of line feed signal</p> <p>3) display line count on screen</p> <p>4) return line count to caller</p>

Fig. 18

```
//outline
//  obtain line count of file
//  return value
//  line count of file
//  explanation of parameter
//  nothing
int getline()
{
    //1) initialize variable
    int c, nl;
    nl=0;
    //2) count number of lines till EOF is detected
    while ((c=getchar()) != EOF)
        //2.1) check whether it is line feed signal or not
        if (c=='\n')
            //2.1.1) count number of lines in the case of line feed signal
            ++nl;

    //3) display line count on screen
    printf ("%d\n", nl);
    //4) return line count to caller
    return nl;
}
```

Fig. 19

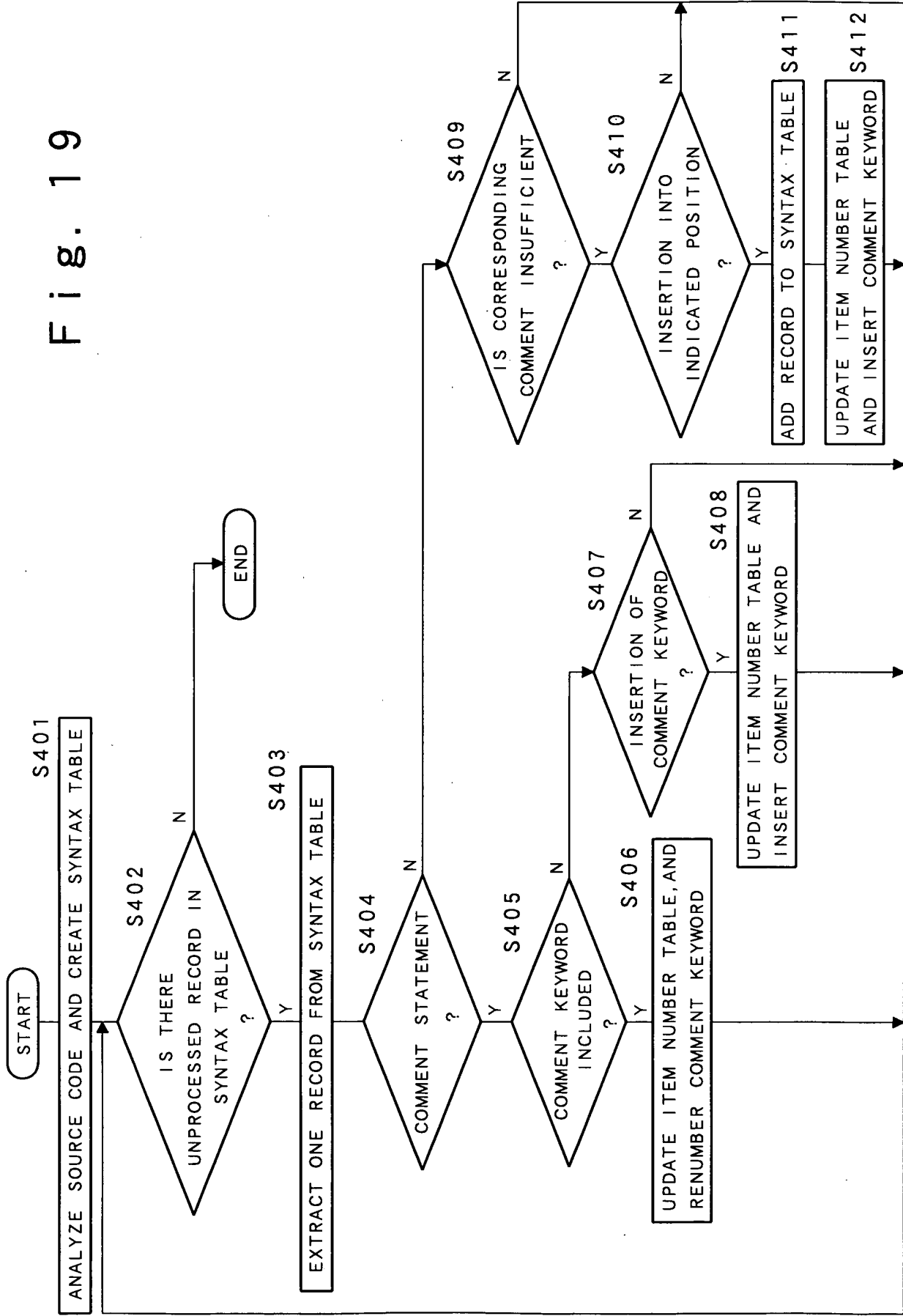


Fig. 20

STATEMENT CATEGORY	NEST NUMBER	STATEMENT
COMMENT STATEMENT	1	//) initialize variable
SEQUENTIAL STATEMENT	1	int c, nl;
SEQUENTIAL STATEMENT	1	nl=0;
COMMENT STATEMENT	1	//) count number of lines till EOF is detected
ITERATION STATEMENT	2	while ((c=getchar ()) !=EOF)
SELECTION STATEMENT	3	if (c==' \n')
SEQUENTIAL STATEMENT	3	++nl;
COMMENT STATEMENT	1	//) display line count on screen
SEQUENTIAL STATEMENT	1	printf (" %d\n", nl) ;
BRANCH STATEMENT	1	return nl;

Fig. 21

STATEMENT CATEGORY	NEST NUMBER	STATEMENT
COMMENT STATEMENT	1	//1) initialize variable
SEQUENTIAL STATEMENT	1	int c, nl;
SEQUENTIAL STATEMENT	1	nl=0;
COMMENT STATEMENT	1	//2) count number of lines till EOF is detected
ITERATION STATEMENT	2	while ((c=getchar()) != EOF)
COMMENT STATEMENT	2	//2.1)
SELECTION STATEMENT	3	if (c=='\n')
COMMENT STATEMENT	3	//2.1. 1)
SEQUENTIAL STATEMENT	3	++nl;
COMMENT STATEMENT	1	//3) display line count on screen
SEQUENTIAL STATEMENT	1	printf ("%d\n", nl);
COMMENT STATEMENT	1	//4)
BRANCH STATEMENT	1	return nl;

Fig. 22

```
//outline
//  obtain line count of file
//  return value
//  line count of file
//  explanation of parameter
//  nothing
int getline()
{
    //2) initialize variavle
    int c, nl;
    nl=0;
    //3) count number of lines till EOF is detected
    while (c=getchar()) !=EOF)
        if (c=='\n')
            ++nl;
    //6) display line count on screen
    printf ("%d\n", nl);
    return nl;
}
```

Fig. 23

STATEMENT CATEGORY	NEST NUMBER	STATEMENT
COMMENT STATEMENT	1	//2) initialize variable
SEQUENTIAL STATEMENT	1	int c, nl;
SEQUENTIAL STATEMENT	1	nl=0;
COMMENT STATEMENT	1	//3) count number of lines till EOF is detected
ITERATION STATEMENT	2	while ((c=getchar()) !=EOF)
SELECTION STATEMENT	3	if (c=='\n')
SEQUENTIAL STATEMENT	3	++nl;
COMMENT STATEMENT	1	//6) display line count on screen
SEQUENTIAL STATEMENT	1	printf ("%d\n", nl);
BRANCH STATEMENT	1	return nl;

Fig. 24

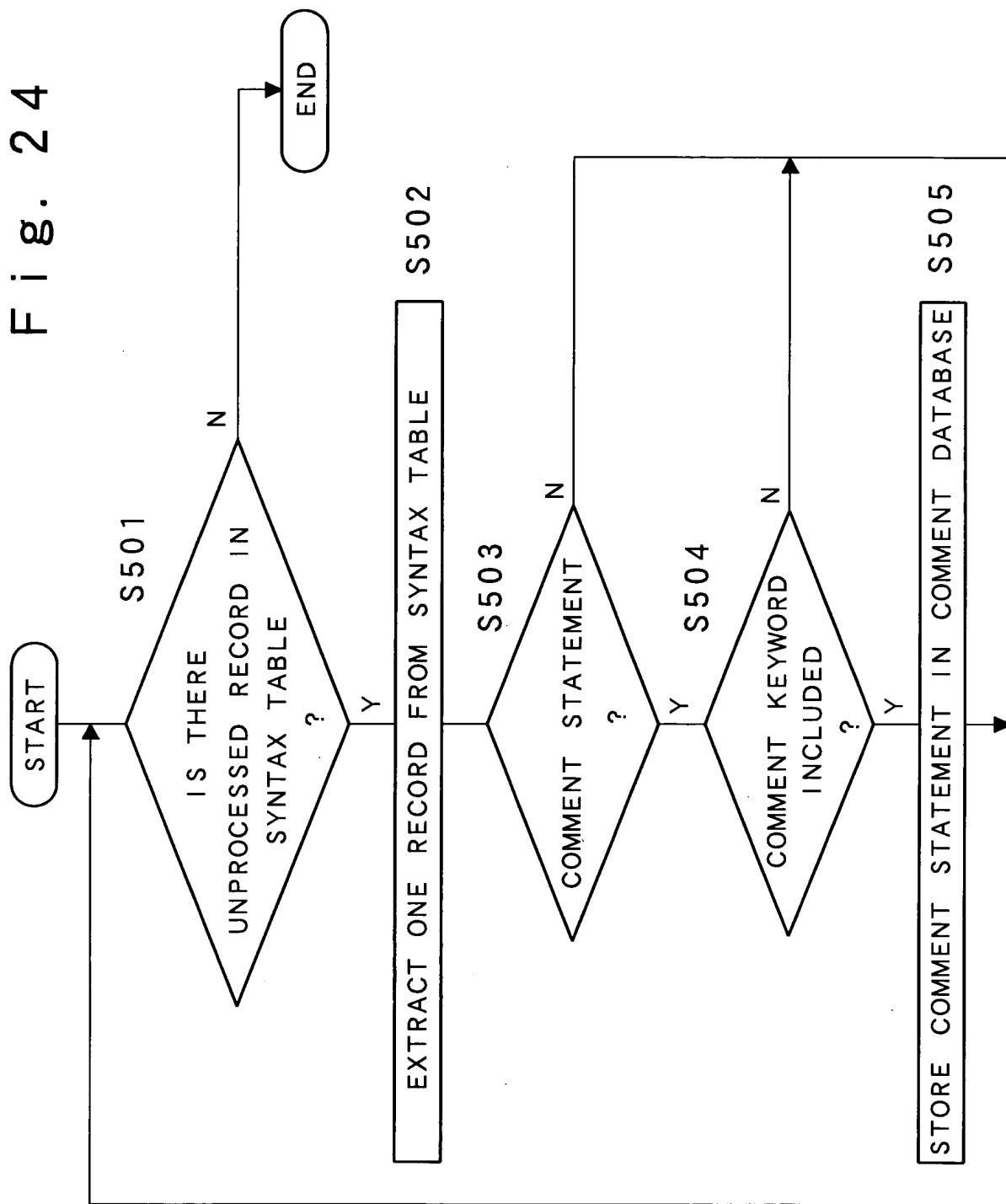


Fig. 25

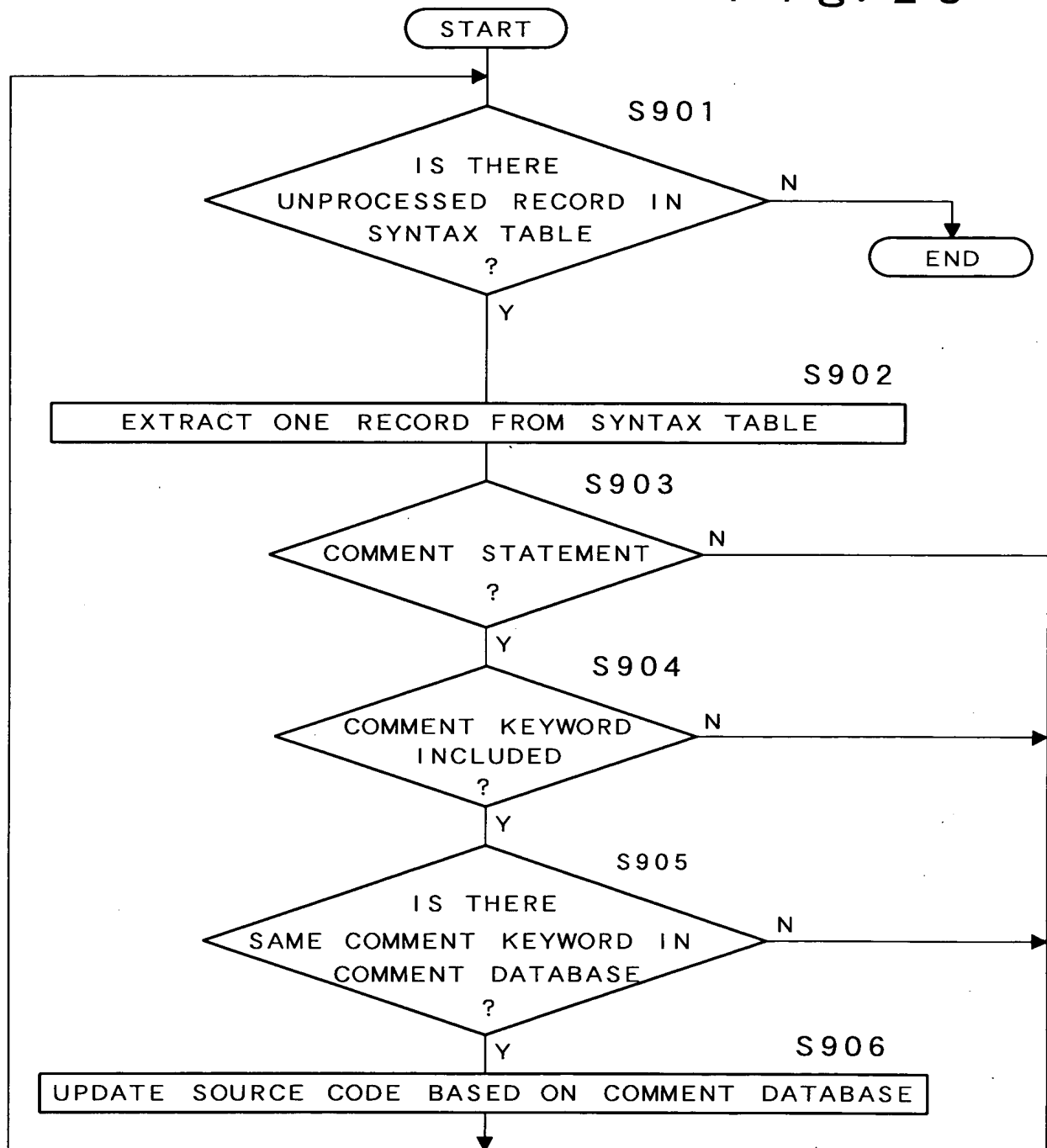


FIG. 25